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PLUS 6/23/04

Butler, Douglas

From: PLUS
Sent: Monday, June 21, 2004 2:09 PM
To: Butler, Douglas
Subject: PLUS Results for 10812108

Here are the PLUS search results for 10812108.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.


10812108_QUAL.txt


10812108_LIST.txt


10812108_WEST.txt


10812108_EAST.txt


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10812108_CLS.txt


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PLUS Search Results for S/N 10812108, Searched June 21, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6712059	4514714	5816233
5660158	5371320	5881704
4936283	5808522	6543432
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10812108_LIST

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10812108_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10812108 on June 21, 2004

Original Classifications

14	124/89
8	74/574
4	124/23.1
4	124/25.6
3	124/86
3	228/180.5
3	464/24
2	174/42
2	192/3.29
2	257/776
2	267/136
2	267/154
2	267/293
2	440/6
2	464/67
2	473/520

Cross-Reference Classifications

11	74/574
11	464/68
5	124/23.1
5	124/88
5	188/378
5	192/208
5	192/212
5	257/E21.518
4	124/900
4	188/379
4	192/70.17
4	464/24
3	124/86
3	126/77
3	192/213.2
3	228/4.5
3	267/136
3	464/66
3	464/67
2	42/1.06
2	52/167.4
2	74/573F
2	114/124
2	114/274
2	165/103
2	188/267
2	188/322.5
2	192/204
2	192/205
2	192/207
2	192/209
2	192/213.1
2	192/30V
2	228/1.1
2	228/110.1
2	248/562

2 248/584
2 257/666
2 257/696
2 257/775
2 257/780
2 257/784
2 267/140.11
2 267/141.2
2 267/219
2 267/292
2 381/354
2 422/176
2 438/617
2 440/53
2 464/17
2 464/180
2 464/57
2 464/64
2 984/DIG 1

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19 74/574
14 124/89
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2 473/316
2 473/520
2 984/DIG 1

10812108_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10812108 on June 21, 2004

19 74/574 (8 OR, 11 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/469 CONTROL LEVER AND LINKAGE SYSTEMS
74/572 .Flywheels and rotors
74/574 ..With vibration damping means

14 124/89 (14 OR, 0 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/80 ELEMENT
124/86 .For archery projector
124/88 ..Bow handle or attachment thereto
124/89 ...For stabilization thereof

12 464/68 (1 OR, 11 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/61 .Element is a spring coiled about centerline angularly related to or radially spaced from rotationa
1
axis
464/62 ..Plural springs
464/66 ...Opposite ends of spring are equidistant from rotational axis
464/68 ....Springs positioned between axially spaced plates of one member and driven by other member extending radially between said plates

9 124/23.1 (4 OR, 5 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/16 SPRING
124/23.1 .Bow

7 464/24 (3 OR, 4 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/24 FLUID COUPLING

6 124/86 (3 OR, 3 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/80 ELEMENT
124/86 .For archery projector

6 192/208 (1 OR, 5 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience
192/208 ...With fluid damping

5 124/25.6 (4 OR, 1 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/16 SPRING
124/23.1 .Bow
124/25.6 ..Compound bow

5 124/88 (0 OR, 5 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/80 ELEMENT
124/86 .For archery projector
124/88 ..Bow handle or attachment thereto

5 188/378 (0 OR, 5 XR)
Class 188 : BRAKES
188/378 INERTIA OF DAMPING MASS DISSIPATES MOTION (E.G., VIBRATION DAMPER)

5 192/212 (0 OR, 5 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience
192/212 ...Coil spring

5 192/70.17 (1 OR, 4 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/66.1 .Axially engaging
192/70.11 ..Interposed, mating clutch-elements
192/70.16 ...With torque connection between clutch-element and its shaft
192/70.17 ....Resilient torque connection (e.g., for damping vibration)

5 257/E21.518 (0 OR, 5 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E21.001 PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE OR TREATMENT OF SEMICONDUCTOR OR SOLID-STATE DEVICES OR OF PARTS THEREOF (EPO)
257/E21.002 .Manufacture or treatment of semiconductor device (EPO)
257/E21.04 ..Device having at least one potential-jump barrier or surface barrier, e.g., PN junction, depletion layer, carrier concentration layer (EPO)
257/E21.499 ...Assembling semiconductor devices, e.g., packaging , including mounting, encapsulating, or treatment of packaged semiconductor (EPO)
257/E21.506 ....Attaching or detaching leads or other conductive members, to be used for carrying current to or from device in operation (EPO)
257/E21.518 .....Involving application of mechanical vibration, e.g., ultrasonic vibration (EPO)

5 267/136 (2 OR, 3 XR)
Class 267 : SPRING DEVICES
267/136 RESILIENT SHOCK OR VIBRATION ABSORBER

5 464/67 (2 OR, 3 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/61 .Element is a spring coiled about centerline angularly related to or radially spaced from rotationa
1 axis
464/62 ..Plural springs
464/66 ...Opposite ends of spring are equidistant from rotational axis
464/67 ....Springs on circumferentially extending curved centerline

4 124/900 (0 OR, 4 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/900 LIMB TIP ROTATABLE ELEMENT STRUCTURE

4 188/379 (0 OR, 4 XR)
Class 188 : BRAKES
188/378 INERTIA OF DAMPING MASS DISSIPATES MOTION (E.G., VIBRATION DAMPER)
188/379 .Resiliently supported damping mass

3 126/77 (0 OR, 3 XR)
Class 126 : STOVES AND FURNACES
126/99R HOT-AIR FURNACES
126/58 .Heating
126/77 ..Feeding air

3 192/213.2 (0 OR, 3 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience
192/212 ...Coil spring
192/213 ....Plural helical coil spring damping stages

192/213.2 .....Plural radially spaced springs in a common radial plane

3 192/3.29 (2 OR, 1 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/3.21 VORTEX-FLOW DRIVE AND CLUTCH
192/3.28 .Including drive-lockup clutch
192/3.29 ..Having fluid-pressure operator

3 228/180.5 (3 OR, 0 XR)
Class 228 : METAL FUSION BONDING
228/101 PROCESS
228/178 .Plural joints
228/179.1 ..Of electrical device (e.g., semiconductor)
228/180.5 ...Wire bonding

3 228/4.5 (0 OR, 3 XR)
Class 228 : METAL FUSION BONDING
228/4.1 WITH MEANS TO JUXTAPOSE AND BOND PLURAL WORKPIECES
228/4.5 .Wire lead bonder

3 267/154 (2 OR, 1 XR)
Class 267 : SPRING DEVICES

267/154 TORSION

3 267/292 (1 OR, 2 XR)
Class 267 : SPRING DEVICES
267/2 VEHICLE
267/292 .Elastomeric

3 267/293 (2 OR, 1 XR)
Class 267 : SPRING DEVICES
267/2 VEHICLE
267/292 .Elastomeric
267/293 ..Including central guide rod or tube through spring

3 464/66 (0 OR, 3 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/61 .Element is a spring coiled about centerline angularly related to or radially spaced from rotational axis
464/62 ..Plural springs
464/66 ...Opposite ends of spring are equidistant from rotational axis

2 42/1.06 (0 OR, 2 XR)
Class 042 : FIREARMS
42/1.06 WITH RECOIL REDUCER

2 52/167.4 (0 OR, 2 XR)
Class 052 : STATIC STRUCTURES
52/167.1 MEANS COMPENSATING EARTH-TRANSMITTED FORCE (E.G., EARTHQUAKE)
52/167.4 .Relative motion means between a structure and its foundation

2 74/573F (0 OR, 2 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/469 CONTROL LEVER AND LINKAGE SYSTEMS
74/572 .Flywheels and rotors
74/573R ..With balancing means
74/573F ...Fluid balancing means

2 110/214 (1 OR, 1 XR)
Class 110 : FURNACES
110/203 WITH EXHAUST GAS TREATMENT MEANS
110/210 .Afterburning means
110/214 ..Including means to add air

2 114/124 (0 OR, 2 XR)
Class 114 : SHIPS
114/121 BALLASTING
114/124 .Shifting weights

2 114/219 (1 OR, 1 XR)
Class 114 : SHIPS
114/219 Fenders

2 114/274 (0 OR, 2 XR)

Class 114 : SHIPS
114/271 HULL OR HULL ADJUNCT EMPLOYING FLUID DYNAMIC FORCES TO DERIVE A LIFT OR ALTER TRIM, E.G., PLANING HULLS

114/274 .Having hydrofoil

2 114/279 (1 OR, 1 XR)
Class 114 : SHIPS
114/271 HULL OR HULL ADJUNCT EMPLOYING FLUID DYNAMIC FORCES TO DERIVE A LIFT OR ALTER TRIM, E.G., PLANING HULLS

114/274 .Having hydrofoil
114/279 ..With shock damping means

2 137/493.8 (1 OR, 1 XR)
Class 137 : FLUID HANDLING
137/455 LINE CONDITION CHANGE RESPONSIVE VALVES
137/493 .Bi-directional flow valves
137/493.8 ..Axes of ports parallel

2 137/512.15 (1 OR, 1 XR)
Class 137 : FLUID HANDLING
137/455 LINE CONDITION CHANGE RESPONSIVE VALVES
137/511 .Direct response valves (i.e., check valve type)
137/512 ..Plural
137/512.1 ...Dividing and recombining in a single flow path
137/512.15 ....Integral resilient member forms plural valves

2 165/103 (0 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/96 WITH ADJUSTOR FOR HEAT, OR EXCHANGE MATERIAL, FLOW
165/100 .Branched flow
165/103 ..By pass of heating or cooling means

2 174/42 (2 OR, 0 XR)
Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS
174/40R OVERHEAD
174/42 .With conductor vibration damping means

2 188/267 (0 OR, 2 XR)
Class 188 : BRAKES
188/266 INTERNAL-RESISTANCE MOTION RETARDER
188/267 .Using magnetic flux

2 188/322.5 (0 OR, 2 XR)
Class 188 : BRAKES
188/266 INTERNAL-RESISTANCE MOTION RETARDER
188/322.5 .Using viscosity of fluid medium

2 192/204 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub

192/204 ..Specified bushing

2 192/205 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/205 ..Separate seat detail

2 192/207 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience

2 192/209 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience
192/209 ...Nonmetallic

2 192/213.1 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience
192/212 ...Coil spring
192/213 ....Plural helical coil spring damping stages

192/213.1 .....Plural axially spaced springs

2 192/214.1 (1 OR, 1 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience
192/212 ...Coil spring
192/214 ....Interposed friction element
192/214.1 .....Biasing means

2 192/30V (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/30V .Vibration dampers

2 192/55.4 (1 OR, 1 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/54.1 .Torque responsive
192/55.2 ..With flexible shaft coupling permitting limited relative rotation
192/55.3 ...Separate resilient member between clutch element and its shaft
192/55.4 ....Fluid damper

2 228/1.1 (0 OR, 2 XR)
Class 228 : METAL FUSION BONDING
228/1.1 MEANS TO APPLY VIBRATORY SOLID-STATE BONDING ENERGY (E.G., ULTRASONIC, ETC.) TO WORK

2 228/110.1 (0 OR, 2 XR)
Class 228 : METAL FUSION BONDING
228/101 PROCESS
228/110.1 .Using high frequency vibratory energy (e.g., ultrasonic)

2 248/559 (1 OR, 1 XR)
Class 248 : SUPPORTS
248/559 INCLUDING ADDITIONAL VIBRATING MASS

2 248/562 (0 OR, 2 XR)
Class 248 : SUPPORTS
248/560 RESILIENT SUPPORT
248/562 .Including additional energy absorbing means, e.g., fluid or friction damping, etc.

2 248/584 (0 OR, 2 XR)
Class 248 : SUPPORTS
248/560 RESILIENT SUPPORT
248/580 .Including load sustaining bearing or guide
248/584 ..Resilient means acts through linkage or gear

2 257/666 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/666 LEAD FRAME

2 257/696 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/688 .With large area flexible electrodes in press contact with opposite sides of active semiconductor c
hip
and surrounded by an insulating element, e.g., ring
257/690 .With contact or lead
257/692 ..With particular lead geometry
257/693 ...External connection to housing
257/696 ....Bent (e.g., J-shaped) lead

2 257/775 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
257/773 .Of specified configuration
257/775 ..Varying width or thickness of conductor

2 257/776 (2 OR, 0 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
257/773 .Of specified configuration
257/776 ..Cross-over arrangement, component or structure

2 257/780 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
257/780 .Ball or nail head type contact, lead, or bond

2 257/784 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES
257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
257/784 .Wire contact, lead, or bond

2 267/140.11 (0 OR, 2 XR)
Class 267 : SPRING DEVICES
267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
267/140.11 .Including energy absorbing means or feature (e.g., supplemental vehicle equipment, such as motor mount, seat, etc., including additional fluid or friction energy absorber)

2 267/140.13 (1 OR, 1 XR)
Class 267 : SPRING DEVICES
267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
267/140.11 .Including energy absorbing means or feature (e.g., supplemental vehicle equipment, such as motor mount, seat, etc., including additional fluid or friction energy absorber)
267/140.13 ..Axial

2 267/141.2 (0 OR, 2 XR)
Class 267 : SPRING DEVICES
267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
267/141 .Nonmetallic, resilient element
267/141.2 ..Confined between coaxial, vibrating annular members

2 267/219 (0 OR, 2 XR)
Class 267 : SPRING DEVICES
267/2 VEHICLE
267/195 .Mechanical spring and nonresilient retarder (e.g., shock absorber)
267/217 ..Fluid retarder
267/219 ...Elastomeric spring

2 310/326 (1 OR, 1 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/300 NON-DYNAMOELECTRIC
310/311 .Piezoelectric elements and devices
310/326 ..Combined with damping structure

2 381/354 (0 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/337 .Having acoustic wave modifying structure
381/354 ..Absorbing or attenuating element

2 422/176 (0 OR, 2 XR)
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING
422/129 CHEMICAL REACTOR
422/168 .Waste gas purifier
422/176 ..Including waste gas flow distributor upstream of reaction site and within reaction chamber modifying

2 438/617 (0 OR, 2 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/584 COATING WITH ELECTRICALLY OR THERMALLY CONDUCTIVE MATERIAL
438/597 .To form ohmic contact to semiconductive material
438/612 ..Forming solder contact or bonding pad
438/613 ...Bump electrode
438/615 ....Including fusion of conductor
438/617 .....By wire bonding

2 440/53 (0 OR, 2 XR)
Class 440 : MARINE PROPULSION
440/49 SCREW PROPELLER
440/53 .With means effecting or facilitating movement of propulsion unit or a segment of the propulsion unit (e.g., tilting or steering)

2 440/6 (2 OR, 0 XR)
Class 440 : MARINE PROPULSION
440/6 ELECTRIC DRIVE FOR PROPELLING MEANS

2 464/17 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/17 HAVING HEATING OR COOLING MEANS

2 464/180 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/179 SHAFTING
464/180 .Particular vibration dampening or balancing structure

2 464/57 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/57 .Element has plural convolutions wound about rotational axis

2 464/64 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/61 .Element is a spring coiled about centerline angularly related to or radially spaced from rotational axis
464/62 ..Plural springs
464/64 ...Plural superposed springs on common centerline

2 473/316 (1 OR, 1 XR)
Class 473 : GAMES USING TANGIBLE PROJECTILE
473/131 GOLF
473/282 .Club or club support

473/316 ..Shaft

2 473/520 (2 OR, 0 XR)
Class 473 : GAMES USING TANGIBLE PROJECTILE
473/516 PLAYER HELD AND POWERED, NONMECHANICAL PROJECTOR, PER SE, FOR PROJECTING AERIAL PROJECTILE BY STRIKING; PART THEREOF OR ACCESSORY THEREFOR
473/520 .With sound-deadening, vibration-damping, or shock-absorbing feature other than projectile- or hand-contact surface or with rebound reducing feature

2 984/DIG 1 (0 OR, 2 XR)
Class 984 : MUSICAL INSTRUMENTS
984/DIG 1 PAPER COPIES IN NUMERICAL ORDER OF ALL U.S. PATENTS IN SUBCLASSES 1-398